

Data sheet for three-phase Squirrel-Cage-Motors INNOMOTICS



Motor type : 1CV4314C

INNOMOTICS SD - 315 L - IM V1 - 6p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Safe Area

Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cos φ ³⁾			I _A /I _N I _f /I _N	M _A /M _N T _f /T _N	M _K /M _N T _B /T _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	110.00	-/-	193.00	992	1060.0	95.8	96.1	96.0	0.86	0.82	0.73	8.3	2.8	3.5	IE4
690	Y	50	110.00	-/-	112.00	992	1060.0	95.8	96.1	96.0	0.86	0.82	0.73	8.3	2.8	3.5	IE4
460	Δ	60	110.00	-/-	169.00	1193	880.0	96.2	96.3	95.9	0.85	0.80	0.70	9.3	3.1	3.9	IE4
460	Δ	60	132.00	-/-	198.00	1191	1060.0	96.2	96.5	96.4	0.87	0.84	0.76	7.9	2.6	3.3	IE4
IM V1 / IM3011			FS 315 L		IP55		UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 22.1 s 31.6 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63 / 78 dB(A) ^{2) 3)}	66 / 80 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	4.4900 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	6319 C3		Thermal class	F
permissible lateral force on (N) (N)	X ₀ ²⁾ 10600	X _{0.5} ²⁾ 9900	X _{max} ²⁾ 9200	Duty type
bearing lifetime	L _{10mh} F _{Rad, min} for coupling operation 50 60Hz ¹⁾		Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Frame material	cast iron
Lubricants	UNIREX N3		Net weight of the motor	kg
Regreasing device	Flat type lubricating nipple		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	(Standard) Yes		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	box at the top	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	38 mm - 45 mm
Type of terminal box	TB1Q01	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	4 plugs

I_A/I_N = locked rotor current / current nominal
 M_A/M_N = locked rotor torque / torque nominal
 M_K/M_N = break down torque / nominal torque
 1) L_{10mh} according to DIN ISO 281 10/2010
 2) at rated power / at full load
 3) Value is valid only for DOL operation with motor design IC411

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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Special design

H00 Canopy

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